

THE DER WEEKLY

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Distributed Energy Resources...the Power of Choice

● Industry News

Teledyne to Deliver Fuel Cell to DOE

Teledyne Energy Systems, Inc., announced on January 28 that it will deliver a prototype Proton Exchange Membrane (PEM) fuel cell power system to the U.S. Department of Energy (DOE) under the continuation of work begun by Energy Partners, Inc. Teledyne Energy Systems' major objective for the project is to scale up its 3 kW natural gas Stationary Power Unit prototype design to provide at least 7 kW of power. Additional objectives include improving the system's transient response ability, evaluating various power conditioning options, improving system packaging, and conducting tests in cooperation with DOE. DOE will use the 7 kW unit, which is scheduled for delivery in late 2002, to evaluate the operating characteristics of PEM fuel cell systems under operating conditions similar to those encountered by both vehicle and stationary power plants.

Teledyne Energy Systems Press Release, January 28

PowerCold Announces CHP Orders for NY

On January 29, Power Sources, Inc., a wholly owned subsidiary of PowerCold Corporation, announced that it has received two new orders for combined heat and power (CHP) plants in New York City. The orders include a \$308,000 contract for an 800 kW cogeneration plant at a Queens recycling facility and a \$360,000 contract to build a 1000 kW CHP plant at a New York City bakery. Joe Cahill, President of Power Sources, noted, "Utility electric rates in New York City are some of the highest in the country. To be competitive, manufacturing companies must use an enlightened approach to their energy needs." Cahill said that the facility at the recycling center will provide power the local utility cannot, reduce electric costs by more than 40%, and provide hot water for washing down trucks as well as space heating during the winter months. The bakery plant will save a projected \$220,000 annually.

PowerCold Press Release, January 29

● Regional Office News

ARO Meets with TVA's Public Power Institute

Jim Powell, Director, Atlanta Regional Office (ARO); Lynda Wallace, Deputy Director; and Division Directors David Waldrop, Angela Young, and Steve Hortin along with program

managers in their divisions met with Tennessee Valley Authority (TVA) Public Power Institute representatives on January 11. The purpose of the meeting was to determine mutual project goals and objectives in the areas of transportation and fuels, Green Energy purchases by Federal agencies, renewable energy sources, distributed energy resources, building end-use efficiencies, and industrial programs. The meeting included general discussion and then break-out sessions by topical areas. At the end of the day, each break-out group identified specific projects that will be pursued.

CRO to Co-Sponsor Ohio DG Workshop

The Chicago Regional Office (CRO) will co-sponsor the upcoming Ohio Department of Development workshop and exhibition, "On-site Energy Options for Ohio Businesses and Homeowners," at the Hyatt Regency Hotel in Columbus, Ohio, on February 4. Other co-sponsors include the Public Utility Commission of Ohio and the Ohio Environmental Protection Agency. Peter Dreyfuss, Director of the Chicago Regional Office, will present a luncheon keynote speech. The one-day workshop will provide homeowners and businesses information on distributed generation options. An exhibit hall will be open all day with exhibits and demonstrations available for viewing. The CRO will staff an exhibit at the event.



● Announcements

NYSERDA Funding Opportunities

The New York State Energy Research and Development Authority (NYSERDA) has announced that it will award up to \$10 million in multiple cost-shared contracts to support new product development of distributed generation (DG) systems. NYSERDA anticipates an initial allocation of up to \$4 million for new product development and the balance of the allotted funds for demonstration of combined heat and power (CHP) systems. Eligible distributed generation technologies include fuel cells, microturbines, and reciprocating engines. Proposals are due March 12, 2002. For information, visit www.nyserdera.org/669pon.html.

(Continued on page 2)

Construction of a wind farm, consisting of 7 wind turbines, in the Panhandle of Nebraska will start later this year.*

Johnson Controls to Develop CHP Project for Marine Base

On January 30, Johnson Controls, Inc., announced that the Marine Air Ground Task Force Training Command at Twentynine Palms, California, signed a \$16.1 million contract for installation and service of a 7-MW dual-fueled combined heat and power (CHP) system. The natural-gas-driven system will not only increase the reliability of the base's electric power supply, but will also reduce electricity purchases from local utility Southern California Edison by almost two-thirds, resulting in an annual cost savings to the Federal government of approximately \$5.8 million. "We have more than 10,000 Marines housed here in the desert with summer temperatures reaching more than 120 degrees, and we need a self-sufficient, reliable energy source to provide an environment that helps us fulfill our mission. The new cogeneration unit is an innovative way to meet both goals at a low cost and save energy at the same time," said Wayne Hofeldt, Marine Air Ground Task Force Training Command Twentynine Palms Base Energy Manager. Hofeldt also stated that the project was developed collaboratively, with representatives from Johnson Controls, Southern California Edison, The Gas Company, the U.S. Department of Energy, the U.S. Navy Region Southwest, the Mojave Air Quality Management District, and the Marine Air Ground Task Force Training Command Twentynine Palms Environmental Team.

Johnson Controls Press Release, January 30



NYSERDA is also seeking applications for its Technology Acceleration Program. The program is designed to stimulate early stage product development and encourage the commercialization efforts of New York State businesses and institutions whose products and/or processes result in the generation or conservation of energy or environmental benefits. The maximum award under this notice is \$25,000 per project. Applications are due by March 14, 2002. For more information, visit www.nyseda.org/587pon.html.

State Energy Program Solicitation

Several fuel-cell-related categories are included in the FY2002 State Energy Program Special Projects solicitation. Special Projects options for the Mid-Atlantic Region include Uninterrupted Power Source (testing and evaluation of 1- to 5-kW fuel cells to provide power as an uninterruptible source and/or peak shaving plant), Power Park (demonstrate the use of hydrogen as an energy carrier for remote areas), Compressors, Storage and Dispensers (test the ability of a hydrogen generation system to fill buses and/or light and heavy duty vehicle storage tanks), and Distributed Energy Resources Technologies (including fuel cell projects to support long-term testing and/or engineering/system design and support). Approximately \$18.5 million is available to states to implement projects under this solicitation. The deadline for proposals is March 15, 2002. For more information, visit www.eren.doe.gov/buildings/state_energy/corner_cafe/special_projects.html

Source for all solicitation information: Fuel Cell Connection, January 2002



By the Numbers

- 650 MW of renewables capacity installed to serve green power customers
- 440 MW of renewables capacity either under construction or formally announced that will serve green power customers

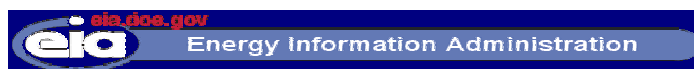


*Source: Green Power Network,
www.eren.doe.gov/greenpower/new_gp_cap.shtml*

What's on the Web

The U.S. Department of Energy's Energy Information Administration has released its newest Renewable Energy Map, the Pacific Renewable Energy Map, which provides an integrated picture of renewable energy resources in Alaska, California, Hawaii, Oregon, and Washington. It shows solar, geothermal, and wind energy potentials; indicators of hydroelectric, biomass, and wood energy potential; and the geographic location of renewable energy power plants with a net summer capacity of 1 megawatt or more. The Pacific map completes EIA's series of U.S. Renewable Energy Maps.

EIA web site, www.eia.doe.gov/emeu/repss/remap/pacific.html



The Municipal Energy Agency of Nebraska will build the wind farm, and possibly add 13 more turbines to it later.*

Calendar of Events

FEBRUARY 2002			
4	On-site Energy Options for Ohio Businesses and Homeowners	Columbus, OH	www.eren.doe.gov/cro
4-7	ICEPAG 2002	Newport Beach, CA	www.parcon.uci.edu/colloquium
6-7	Fuel Cell Dynamics: Reality, Not Hype	New York, NY	www.alliedworld.com
6-8	Fundamentals of Buying & Selling Energy	San Francisco, CA	(703) 243-8343, www.aeecenter.org
11-13	NASEO 2002 Energy Outlook	Washington, DC	www.naseo.org/events/default.htm
14	FERC-DOE Demand Response Conf.	Washington, DC	www.ferc.gov/electric/rto/mrkt-strct-comments/rm01-12-comments.htm#demand ; Lauren Giles, lgiles@energeticsinc.com
20-21	Growing Green Power Demand	Denver, CO	www.xenergy.com/denver
20-22	NET 2002: New and Emerging Technologies Conference	Tucson, AZ	www.nreca.org/edu_events/conferences/newtech/html/conference.html
21-22	Mid-Atlantic Distributed Energy Resources Workshop	Philadelphia, PA	www.eren.doe.gov/pro/cal.html ; to register: www.energetics.com/DERPhilly.html
Feb 25-March 1	Turbine Power Systems Conference and Condition Monitoring Workshop	Galveston, TX	www.netl.doe.gov
Feb 27-March 1	15th Annual IDEA College/University Conference	Denver, CO	www.districtenergy.org
Feb 27-March 1	DistribuTECH	Miami Beach, FL	www.pennwellevents.com
Feb 27-March 1	Hydrogen Storage Technology—Status and Critical Needs	Hilton Head, SC	william.summers@srs.gov
MARCH 2002			
7-8	Distributed Generation	South San Francisco, CA	www.aeecenter.org/seminars
11-13	6th Annual Distributed Generation & On-Site Power Conference	Atlanta, GA	www.dist-gen.com ; (508) 427-9470; gesi@mediaone.net
12	National Energy Modeling System/Annual Energy Outlook Conference	Washington, DC	www.eia.doe.gov/oiaf/aeo/conf/
13-15	Power System 2002 Conference: Impact of Distributed Generation	Clemson, SC	www.ces.clemson.edu/powsys2002/main.htm
14-15	Fundamentals of Energy Management	Las Vegas, NV	www.aeecenter.org/seminars
12-14	DOE Gas Turbine and Microturbine Programs Peer Review	Fairfax, VA	Debbie Haught (202) 586-2211
17-21	EPRI's 7th Distributed Resources Conference and Expo	Dallas, TX	www.epri.com/programHigh.asp?program=238295&objid=266151
19-21	Electric Power 2002	St. Louis, MO	www.electricpowerexpo.com
20-23	Building Energy Conference	Medford, MA	www.nesea.org ; (877) 44-SOLAR, ext. 20
22	Indiana/Caterpillar CHP Workshop	Indianapolis, IN	Ethan Rogers, (317) 232-8961

Nebraska's Governor, Mike Johanns, requested a report on how the state can tap its wind resources, which will be drafted by the Nebraska Power Association in the next month or two.*

Calendar of Events

MARCH 2002			
25-26	Fundamentals of Cogeneration & On-site Generation	Philadelphia, PA	www.aeecenter.org/seminars
26-27	2nd Annual Fuel Cell Investor	New York, NY	www.srinstitute.com/cr218
27-28	GLOBALCON Energy/Facilities Management Conference & Expo	Philadelphia, PA	www.aeecenter.org/seminars
APRIL 2002			
2-3	Implementing Renewable Energy Projects	Washington, DC	Gail Norby, (303) 526-5528, gail@imaginitech.com
3-4	The 2002 Hydrogen Investment Forum	Washington, DC	www.intertechusa.com
8-9	Colorado Wind and Distributed Energy: Renewables for Rural Prosperity	Denver, CO	www.state.co.us/oemc
8-9	Fuel Cells and Distributed Power Conference	Stamford, CT	www.bccresearch.com/fuel_cells
15-17	EESAT 2002, Electric Energy Storage—Applications and Technologies	San Francisco, CA	www.sandia.gov/EESAT ; Dr. Imre Gyuk (202) 586-1482
21-23	4th Annual Small Fuel Cells Conference	Washington, DC	custserv@knowledgefoundation.com
30-May2	Houston Energy Expo	Houston, TX	www.nesanel.org
MAY 2002			
1-3	External Combustion Engines—New Strategies for Efficient, Green Power Generation	Los Angeles, CA	chuck@intertechusa.com
JUNE 2002			
2-5	Energy 2002 Workshop and Expo: Hot Challenges, Cool Solutions	Palm Springs, CA	(703) 243-8343, www.energy2002.ee.doe.gov
6-7	West Coast Energy Management Congress	Anaheim, CA	(703) 243-8343, www.aeecenter.org
16-18	National Accounts Conference and Exhibition (American Gas Association)	Nashville, TN	http://TheGasChoice.com
JULY 2002			
	No events submitted for this month.		
AUGUST 2002			
18-23	Summer Study on Energy Efficiency in Buildings	Pacific Grove, CA	www.aceee.org

*Source: *Omaha World-Herald*, January 28